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[PPT] [An Efficient LDA Algorithm for Face Recognition](#)

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... This paper proposes a Direct LDA algorithm for **face recognition**. ...  $S_b$  is the between-**class scatter matrix** and  $S_w$  is the in-**class scatter matrix**. ...

[www.eecs.tulane.edu/Peng/cpsc464/Mckenney.ppt](http://www.eecs.tulane.edu/Peng/cpsc464/Mckenney.ppt) - [Similar pages](#)

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... belonging to **class**  $i$  and  $X_i$  represents the set of samples belonging to **class**  $i$ . In the **face recognition** problem, if the within-**class scatter matrix**  $S_w$  is ...

[biometrics.cse.msu.edu/Lu\\_AVBPA03.pdf](http://biometrics.cse.msu.edu/Lu_AVBPA03.pdf) - [Similar pages](#)

[PDF] [COMBINING CLASSIFIERS FOR FACE RECOGNITION Xiaoguang Lu, Yunhong ...](#)

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... independent basis images and a factorial code representation, for the **face recognition** task ...  $W^T S W W$ , (3) where  $S_b$  is the between-**class scatter matrix** and  $S_w$  ...

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... **class scatter**, while minimising the within **class scatter**. ... moving images of difference **faces** further apart. ... Fisherfaces: **recognition** using **class** specific linear ...

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[PPT] [Unified Subspace Analysis for Face Recognition](#)

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... the ratio between the between-**class scatter matrix** and within-**class scatter matrix**.

$W$  can be computed from the eigenvectors of. In **face recognition**, the training ...

[mmlab.ie.cuhk.edu.hk/~wxg/ppt/Unified%20Subspace%20Analysis%20for%20Face%20Recognition.ppt](http://mmlab.ie.cuhk.edu.hk/~wxg/ppt/Unified%20Subspace%20Analysis%20for%20Face%20Recognition.ppt) -

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[PPT] [A Unified Framework for Subspace Based Face Recognition](#)

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... the ratio between the between-**class scatter matrix** and within-**class scatter matrix**. ... **Class** 2. ... In **face recognition**, the training sample number is small ( $M < N$ ). The ...

[mmlab.ie.cuhk.edu.hk/~wxg/ppt/A%20Unified%20Framework%20for%20Subspace%20Based%20Face%20Recognition.ppt](http://mmlab.ie.cuhk.edu.hk/~wxg/ppt/A%20Unified%20Framework%20for%20Subspace%20Based%20Face%20Recognition.ppt) - [Similar pages](#)

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... where  $S_o$  the new intra **class scatter matrix** is defined ... Example of the intra **class** non parametric ... very useful technique for **face recognition**, concentrating the ...

[cost275.gts.tsc.uvigo.es/presentations/Face\\_Masip.pdf](http://cost275.gts.tsc.uvigo.es/presentations/Face_Masip.pdf) - [Similar pages](#)

[PDF] [Enhanced Fisher Linear Discriminant Models for Face Recognition](#)

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... are not included in further computation of the between-class **scatter matrix**. ... 1. Introduction  
 A successful **face recognition** methodology depends heavily on the ...  
[www.cs.njit.edu/~liu/papers/icpr98.pdf](http://www.cs.njit.edu/~liu/papers/icpr98.pdf) - [Similar pages](#)

 [Making FLDA Applicable to Face Recognition with One Sample per ...](#)

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... mmm and  $S_w$  is the intra-class **scatter matrix**  $( ) ( ) 1 1$  ... the means of the  $i$ -th **class**  
 and the ... FLDA has obtained some success in **face recognition**, it obviously ...  
[cs.nju.edu.cn/people/zhoush/zhoush.files/publication/pr04a.pdf](http://cs.nju.edu.cn/people/zhoush/zhoush.files/publication/pr04a.pdf) - [Similar pages](#)

### Algorithms

... technique is the basis for one of the most successful commercial **face recognition**  
 systems, Facelt. ... This **scatter** stems from inter-class variations between ...  
[dagwood.vsam.ri.cmu.edu/FaceRecognition/Html/algorithms.htm](http://dagwood.vsam.ri.cmu.edu/FaceRecognition/Html/algorithms.htm) - 12k - [Cached](#) - [Similar pages](#)

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... 5) Diagonalize the new between-**class scatter matrix**  $K_b \dots I(6)$  The overall transformation **matrix** (after Eq ... efficiency of the novel **face recognition** procedure, EFC ...

[www.cs.njit.edu/~liu/papers/ijcnn99.pdf](http://www.cs.njit.edu/~liu/papers/ijcnn99.pdf) - [Similar pages](#)

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[PPT] [Evaluation of Image Pre-processing Techniques for Eigenface Based ...](#)

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... then taken to formulate the projection **matrix**. ... between-**class scatter**, while minimising within-**class scatter**. 6. ... Meaning **face recognition** systems are usually not ...

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[PDF] [Σ Σ](#)

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... vision and language processing: **face recognition**, handwritten character **recognition**, and speech **recognition**, etc ... used in the multi-**class** pattern classification ...

[elec.sogang.ac.kr/.../10.%20Multi-class%20pattern%20classification%20using%20two-subspace%20analysis.pdf](http://elec.sogang.ac.kr/.../10.%20Multi-class%20pattern%20classification%20using%20two-subspace%20analysis.pdf) - [Similar pages](#)

[PPT] [Face Recognition](#)

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... Data is composed of 28 **faces** photographed under same ... PCA for **Recognition** - EigenImages. ... to maximize ratio of the determinant between **class scatter matrix** of the ...

[www.cs.nyu.edu/courses/spring04/V22.0480-004/recognition.ppt](http://www.cs.nyu.edu/courses/spring04/V22.0480-004/recognition.ppt) - [Similar pages](#)

[PDF] [Two-Dimensional Fisher Face](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... 2] were introduced into **face recognition** application and ... But **face** images are high-dimension patterns. ... to calculate the between-**class scatter matrix** and the ...

[icsp04.njtu.edu.cn/example.pdf](http://icsp04.njtu.edu.cn/example.pdf) - [Similar pages](#)

[PDF] [Comparative Study between different Eigenspace-based Approaches ...](#)

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... Block diagram of a given eigen-space **face recognition** system ... at the same time where the **face** images of ... the separation between the individual **class** means respect ...

[www.cec.uchile.cl/~aabdie/jruizd/papers/afss2002b.pdf](http://www.cec.uchile.cl/~aabdie/jruizd/papers/afss2002b.pdf) - [Similar pages](#)

[PDF] [A COMPARISON OF SUBSPACE ANALYSIS FOR FACE RECOGNITION](#) Jian Li ...

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... The database contains 200 classes, 3 images per **class**. First row are images of neutral **face**, followed by a ... score (CMS) curve and the **recognition** rate within ...

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[PDF] [Multiple-Exemplar Discriminant Analysis for Face Recognition](#)

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... C4] Unlike regular pattern **recognition** where the ... novel subjects since the 'shapes' of all **face** mani- folds ...  $iB$  is the **scatter matrix** between the **class**  $i$  and ...

[www.cfar.umd.edu/~shaohua/papers/zhou04icpr.pdf](http://www.cfar.umd.edu/~shaohua/papers/zhou04icpr.pdf) - [Similar pages](#)  
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[PDF] [Microsoft PowerPoint - lec19-recognition-ll.ppt](#)

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... due to change in **face** identity." -- Moses ... **Recognition** is performed using nearest neighbor ... s Linear Discriminant • **Between-class scatter** • **Within-class** ...

[www.cs.ucsd.edu/classes/sp03/cse190-b/lec19.pdf](http://www.cs.ucsd.edu/classes/sp03/cse190-b/lec19.pdf) - [Similar pages](#)

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... be thought of as a 2-**class recognition** problem: **Face** ... alternatives exist: •OpenCV has a **face** detection module. ... **Within-class scatter matrix**: • **Between-class** ...

[network.ku.edu.tr/~yyemez/ecoe508/PCA\\_LDA.pdf](http://network.ku.edu.tr/~yyemez/ecoe508/PCA_LDA.pdf) - [Similar pages](#)

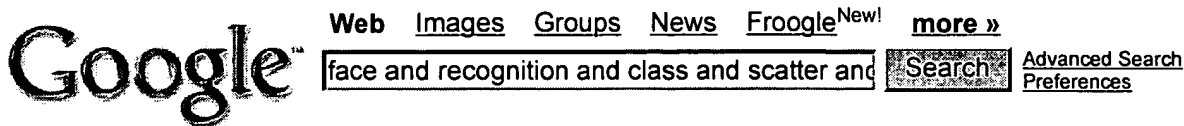
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... The basic LDA-based **face recognition** algorithm is described as following. 1 A.2.1

Feature extraction The between-class **scatter matrix** B S and within-class ...

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**[PPT] Applications of geometrical method in face recognition**

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... Applications of statistical method in **face recognition**. PCA , LDA , ICA , NN , LFA.... ... Between-class covariance **matrix**. ... between-class **scatter** while. ...

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**[PDF] Face Recognition: A Comparison of Appearance-Based Approaches**

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... Method The fisherface method of **face recognition** as described ... of how a person's **face** may change ... dimensionality of the within-class **scatter matrix**, ensuring it ...

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... is greater than the within-class **scatter**. ... LDA Algorithm for **Face Recognition**," International Conference on ... Retrieval and **Class** Representation," Proceedings ...

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... maximizing the determinant of the total **scatter matrix** of the ... for addressing the issue of **face recognition** with one example image per **class**, which designs ...

cs.nju.edu.cn/people/zhoush/zhoush.files/ publication/appmathcomp05.pdf - [Similar pages](#)

**[PDF] Individualized Feature Combination for Face Recognition**

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... and local features are extracted for **face recognition** in our work ... Both PCA and LDA project a **face** image X ... LDA aims at maximizing the between-class distance and ...

nlpr-web.ia.ac.cn/english/irds/papers/ fangyuchun/FR\_TENCON\_CAMERA.pdf - [Similar pages](#)

**[PDF] Towards Robust Face Recognition from Video**

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... In the **face recognition** problem, however, the number of images N is generally much less than ... The within-class **scatter matrix**,  $S_w$ , is given by  $S_w = \sum_{i=1}^K x_i x_i^T$  ...

www.ornl.gov/~webworks/cpr/y2001/pres/112190.pdf - [Similar pages](#)

**Eigenfaces vs. Fisherfaces: Recognition Using Class Specific ...**

... Fisherfaces: **Recognition** Using **Class** Specific Linear Projection. ... It is a bit surprising that all the methods perform better with full **face**. ...

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[PDF] [Eigenspace-based Recognition of Faces: Comparisons and a new ...](#)

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... estimators depends also on the numbers of images per **class**. ... that may be notice in the **recognition** rate ... to call the projection axes (image vectors) as EP-**faces**. ...

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... is the between-**class scatter matrix** and  $S_w$  is the within- **class scatter matrix**. ... 4.

Experiments In our experiments, we compare the **face recognition** rate of the ...

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... **Recognizing Faces?** ... Whitening Whitening: – Find a linear transformation (rotation and scaling) such that the covariance becomes an identity **matrix** (ie, the ...

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[2004 - Technical Reports - Computing - Imperial College London](#)

... a straightforward stabilisation approach for the within-class **scatter matrix**. In order to evaluate its effectiveness, experiments on **face recognition** using the ...

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[Apperance-based Face Detection in Grey Scale Images](#)

... 11) Calculate the between **class scatter matrix**. ... Sources: 1) View-Bases and Modular Eigenspaces for **Face Recognition** - Pentland, A., Moghaddam, B., Starner, T ...

[www.cs.ualberta.ca/~maryia/miscellany/proposal.html](http://www.cs.ualberta.ca/~maryia/miscellany/proposal.html) - 9k - [Cached](#) - [Similar pages](#)

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... the mean image as  $\mu$ , the **scatter matrix**  $S_A$  ... can tune to each specific **class** through learning ... combination results in better performance of **face recognition**. ...

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... machine based discriminant analysis algorithm for **face recognition**. ... where the distribution of **face** patterns is ... of the within- **class scatter matrix** as possible ...

[lcv.stat.fsu.edu/research/geometrical\\_representations\\_of\\_faces/PAPERS/ICIP02\\_KDDA.pdf](http://lcv.stat.fsu.edu/research/geometrical_representations_of_faces/PAPERS/ICIP02_KDDA.pdf) - [Similar pages](#)

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... In the **face recognition** problem, one is confronted with the difficulty that the within-class **scatter matrix**  $S_W$  is always singular. ...

[lcv.stat.fsu.edu/research/geometrical\\_representations\\_of\\_faces/PAPERS/eigenVSfisher.pdf](http://lcv.stat.fsu.edu/research/geometrical_representations_of_faces/PAPERS/eigenVSfisher.pdf) -

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... C train is called a factorial code for **face** images [10 ...  $j = -1$  the labels for each two-class problem ... the classifier  $p_i \in \{-1, +1\}$ . The **recognition** rate is ...

[poseidon.csd.auth.gr/papers/PUBLISHED/CONFERENCE/pdf/Buciu2003a.pdf](http://poseidon.csd.auth.gr/papers/PUBLISHED/CONFERENCE/pdf/Buciu2003a.pdf) - [Similar pages](#)

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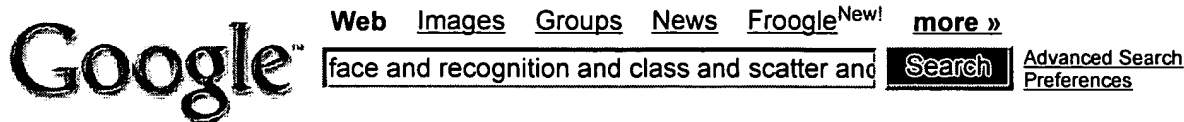
... are carried out on the **face recognition** problem. ... is used for compression and **recognition** problems ... is to maximize the between-class **scatter matrix** measure while ...

[www.computer.org/students/looking/2003fall/A7.pdf](http://www.computer.org/students/looking/2003fall/A7.pdf) - [Similar pages](#)

**[PDF] Class-based Multiple Light Detection: An Application to Faces**File Format: PDF/Adobe Acrobat - [View as HTML](#)... Linear Discriminant approaches have been widely used in **face recognition** and detec ... and S B are the within-**class** and between-**class scatter matrix** respectively [5 ...[www.bmva.ac.uk/bmvc/2003/papers/20/paper020.pdf](http://www.bmva.ac.uk/bmvc/2003/papers/20/paper020.pdf) - [Similar pages](#)**PROJECT REPORT**... To perform **recognition**, we find the caricature of a ... ensemble of a certain number of **face** images per ... The between **class scatter matrix** is defined as where is the ...[www.cs.mcgill.ca/~arajwa/766/766\\_projectreport.htm](http://www.cs.mcgill.ca/~arajwa/766/766_projectreport.htm) - 101k - [Cached](#) - [Similar pages](#)Result Page: [Previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [Next](#) [Search within results](#) | [Language Tools](#) | [Search Tips](#)[Google Home](#) - [Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

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**[PDF] A Wavelet-based Framework for Face Recognition**

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... space, and maximizing the total **scatter** across all ... Fisherfaces: **Recognition** using **class** specific linear projection. ... **Face Recognition**: Features versus Templates ...

[www.csd.uch.gr/~tziritas/papers/face.pdf](http://www.csd.uch.gr/~tziritas/papers/face.pdf) - [Similar pages](#)

**[PDF] REGULARIZED D-LDA FOR FACE RECOGNITION Juwei Lu, KN Plataniotis ...**

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... **class** covariance **matrix** estimates  $S_i$  toward the within-**class scatter matrix** of the ... 4.

CONCLUSION A new method for **face recognition** has been introduced in this ...

[www.dsp.toronto.edu/~juwei/Publication/icasspRDLDA.pdf](http://www.dsp.toronto.edu/~juwei/Publication/icasspRDLDA.pdf) - [Similar pages](#)

**[PDF] FACE RECOGNITION USING FEATURE OPTIMIZATION AND v-SUPPORT VECTOR ...**

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...  $S_{BTW}$  be the weighted between-**class scatter matrix** in the ... the means of **class**  $i$  and **class**  $j$  in ... However, the SSS problem with **face recognition** tasks leads to ...

[www.dsp.toronto.edu/~juwei/Publication/nnspp01\\_final7.pdf](http://www.dsp.toronto.edu/~juwei/Publication/nnspp01_final7.pdf) - [Similar pages](#)

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**[PDF] Fusion of LDA and PCA for Face Recognition**

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... [2] M. Turk, and A. Pentland, Eigenfaces for **Face Recognition**, Journal of ... Fisherfaces: **Recognition** Using **Class** Specific Linear Projection, IEEE Trans. ...

[www.diee.unica.it/informatica/en/publications/papers-prag/Bio-Conference-05.pdf](http://www.diee.unica.it/informatica/en/publications/papers-prag/Bio-Conference-05.pdf) - [Similar pages](#)

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... Fisherfaces: **Recognition** Using **Class** Specific Linear Projection ... [9] S.Pigeon and L.Vanderdorpe: "Multiple experts for robust **face** authentication", in ...

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**[PDF] Discriminant Gaborfaces and Support Vector Machines Classifier for ...**

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... Liu[4] has shown its success of Gaborwavelet representation for **face recognition**. ... Now define between-**class scatter matrix**  $B_S$  and the within-**class matrix**  $W_S$  ...

[www.jdl.ac.cn/doc/2004/Discriminant%20Gaborfaces%20and%20Support%20Vector%20Machines%20Classifier.pdf](http://www.jdl.ac.cn/doc/2004/Discriminant%20Gaborfaces%20and%20Support%20Vector%20Machines%20Classifier.pdf) - [Similar pages](#)

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... Page 3. 3 Abstract In **face recognition** tasks, the dimension of the sample space is ... As a consequence, the within-**class scatter matrix** is singular and the Linear ...

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... **class scatter** and the within- **class scatter** is maximized ... ability for reducing the within-**class** variance of ... 2. Performance Comparison of **Face Recognition** un- der ...

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... computation, resulting in a higher **face-recognition** accuracy ... LDA are more profitable for **face** feature extraction ... the ratio of the between-**class scatter** and the ...

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*(Published monthly as a paper journal and now as an online database product with advanced full text searching capabilities for defensive disclosure information.)*

SID (Society for Information Display) Publications Database

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1. *Advanced Display Technologies 1997, 1998, 1999 (no 2000 or 2001)*
2. *ASID 2000*
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4. *IDMC 2000, 2001*
5. *IDRC 1998, 2000, 2001 (no 1999)*
6. *IDW 1999, 2000, 2001*
7. *Microdisplay 2000, 2001*
8. *SID Symposium Digest of Technical Papers 1995, 1996, 1998 - 2001 (no 1997)*
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Software Patent Institute (SPI) (Select "Free Access")

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